

35. (New) The isolated polynucleotide of claim 34, wherein said polynucleotide comprises a heterologous polynucleotide sequence.

36. (New) The isolated polynucleotide of claim 35, wherein said heterologous polynucleotide sequence encodes a heterologous polypeptide.

37. (New) A method for making a recombinant vector comprising inserting the isolated polynucleotide of claim 34 into a vector.

Sub 34. 38. (New) A nucleic acid sequence complementary to the polynucleotide of claim 34.

39. (New) A recombinant vector comprising the isolated polynucleotide of claim 34.

40. (New) The recombinant vector of claim 39, wherein said polynucleotide is operably associated with a heterologous regulatory sequence that controls gene expression.

41. (New) A recombinant host cell comprising the isolated polynucleotide of claim 34.

42. (New) The recombinant host cell of claim 41, wherein said polynucleotide is operably associated with a heterologous regulatory sequence that controls gene expression.

43. (New) An isolated polynucleotide fragment comprising a nucleic acid sequence which hybridizes under hybridization conditions comprising hybridization in 5XSSC and 50% formamide at 50-65°C and washing in a wash buffer consisting of 0.5XSSC at 50-65°C, to the complementary strand of ORF ID 4 of Contig ID 65, represented by nucleotides 2889-1915 of SEQ ID NO: 65.

44. (New) The isolated polynucleotide of claim 43, wherein said polynucleotide comprises a heterologous polynucleotide sequence.
45. (New) The isolated polynucleotide of claim 44, wherein said heterologous polynucleotide sequence encodes a heterologous polypeptide.
46. (New) A method for making a recombinant vector comprising inserting the isolated polynucleotide of claim 43 into a vector.
47. (New) A nucleic acid sequence complementary to the polynucleotide of claim 43.
48. (New) A recombinant vector comprising the isolated polynucleotide of claim 43.
49. (New) The recombinant vector of claim 48, wherein said polynucleotide is operably associated with a heterologous regulatory sequence that controls gene expression.
50. (New) A recombinant host cell comprising the isolated polynucleotide of claim 43.
51. (New) The recombinant host cell of claim 50, wherein said polynucleotide is operably associated with a heterologous regulatory sequence that controls gene expression.
52. (New) An isolated polynucleotide for the detection of *Escherichia coli*, wherein said isolated polynucleotide comprises at least 15 contiguous nucleotides of the nucleic acid sequence of ORF ID 4 of Contig ID 65, represented by nucleotides 2889-1915 of SEQ ID NO:65.

53. (New) The isolated polynucleotide of claim 52, wherein said polynucleotide comprises a heterologous polynucleotide sequence.
54. (New) The isolated polynucleotide of claim 53, wherein said heterologous polynucleotide sequence encodes a heterologous polypeptide.
55. (New) A method for making a recombinant vector comprising inserting the isolated polynucleotide of claim 52 into a vector.
56. (New) A nucleic acid sequence complementary to the polynucleotide of claim 52.
57. (New) A recombinant vector comprising the isolated polynucleotide of claim 52.
58. (New) The recombinant vector of claim 57, wherein said polynucleotide is operably associated with a heterologous regulatory sequence that controls gene expression.
59. (New) A recombinant host cell comprising the isolated polynucleotide of claim 52.
60. (New) The recombinant host cell of claim 59, wherein said polynucleotide is operably associated with a heterologous regulatory sequence that controls gene expression.
61. (New) The isolated polynucleotide of claim 52, wherein said isolated polynucleotide comprises at least 20 contiguous nucleotides of the nucleic acid sequence of ORF ID 4 of Contig ID 65, represented by nucleotides 2889-1915 of SEQ ID NO:65.

62. (New) The isolated polynucleotide of claim 52, wherein said isolated polynucleotide comprises at least 40 contiguous nucleotides of the nucleic acid sequence of ORF ID 4 of Contig ID 65, represented by nucleotides 2889-1915 of SEQ ID NO:65.

63. (New) The isolated polynucleotide of claim 52, wherein said isolated polynucleotide comprises at least 500 contiguous nucleotides of the nucleic acid sequence of ORF ID 4 of Contig ID 65, represented by nucleotides 2889-1915 of SEQ ID NO:65.

64. (New) A method for detecting *Escherichia coli* comprising:

- (a) contacting a biological sample with the isolated polynucleotide of claim 34; and
- (b) detecting the presence or absence of *Escherichia coli* in the sample.

65. (New) A method for detecting *Escherichia coli* comprising:

- (a) contacting a biological sample with the isolated polynucleotide of claim 43; and
- (b) detecting the presence or absence of *Escherichia coli* in the sample.

66. (New) A method for detecting *Escherichia coli* comprising:

- (a) contacting a biological sample with the isolated polynucleotide of claim 52; and
- (b) detecting the presence or absence of *Escherichia coli* in the sample.

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